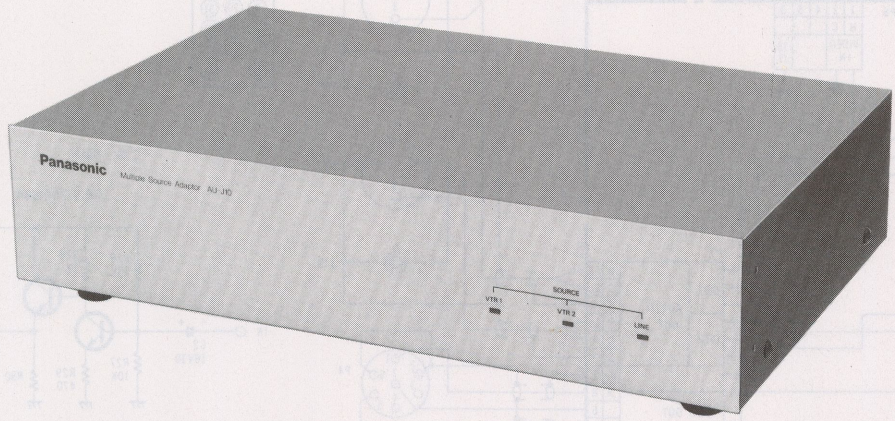
ORDER NO. VRD-8006-406

Service Manual

Multiple Source Adaptor

AU-J10

Schematic Diagrams
Exploded Views
Replacement Parts List



SPECIFICATIONS

Power Source:	DC 12 V (from Editing Controller AU-A70)
Power Consumption:	Approx. 2.3 W
Editor Connections:	
Dubbing-Output:	7-pin connector Chroma level/Luminance level
Video-Output:	BNC connector
Audio-Output:	XLR connectors (ch. 1/ch. 2)
Time-Code-Input:	RCA type jack more than 1.0 Vp-p, High impedance
Time-Code-Output:	RCA type jack 3.0 Vp-p, 600Ω unbalanced
External-Sync Output:	BNC connector 4.0 Vp-p, negative pulse, 75Ω unbalanced
Playback Unit-1 Connections:	
Dubbing-Input:	7-pin connector Chroma level/Luminance level
Video-Input:	BNC connector
Audio-Input:	XLR connectors (ch. 1/ch 2.)
Time-Code-Input:	RCA type jack more than 1.0 Vp-p, High impedance
Time-Code-Output:	RCA type jack 3.0 Vp-p, 300Ω unbalanced
External-Sync Input:	BNC connector 4.0 Vp-p, negative pulse, 75Ω unbalanced
Playback Unit-2 Connections:	
Same as for Playback Unit-1	
Line Connections:	
Video-Input:	BNC connector (Loop-through type) 1.0 Vp-p, 75Ω unbalanced
Audio-Input:	XLR connectors (ch. 1/ch. 2)
Trigger-Output:	RCA type jack Open-collector output (NPN), negative pulse OFF: less than DC 12 V ON: less than 10 mA Pulse width: Approx. 100 ms
Remote-Control Connection Terminal:	34-pin connector
Connectable Controller:	Editing Controller AU-A70
Connectable VTRs:	Source: 2 playback unit, 1 line Editor: 1 editor unit
Operating Temperature:	41°F ~ 104°F (5°C ~ 40°C)
Operating Humidity:	35% ~ 80%
Weight:	10.4 lbs. (4.7 kg)
Dimensions:	16-5/8″(W) × 4-1/8″(H) × 9-7/8″(D) 420(W) × 104(H) × 250(D) mm
Accessory included:	2 pcs. 34 pin Remote control cables, VJA0149, Approx. 16.4 ft (5 m)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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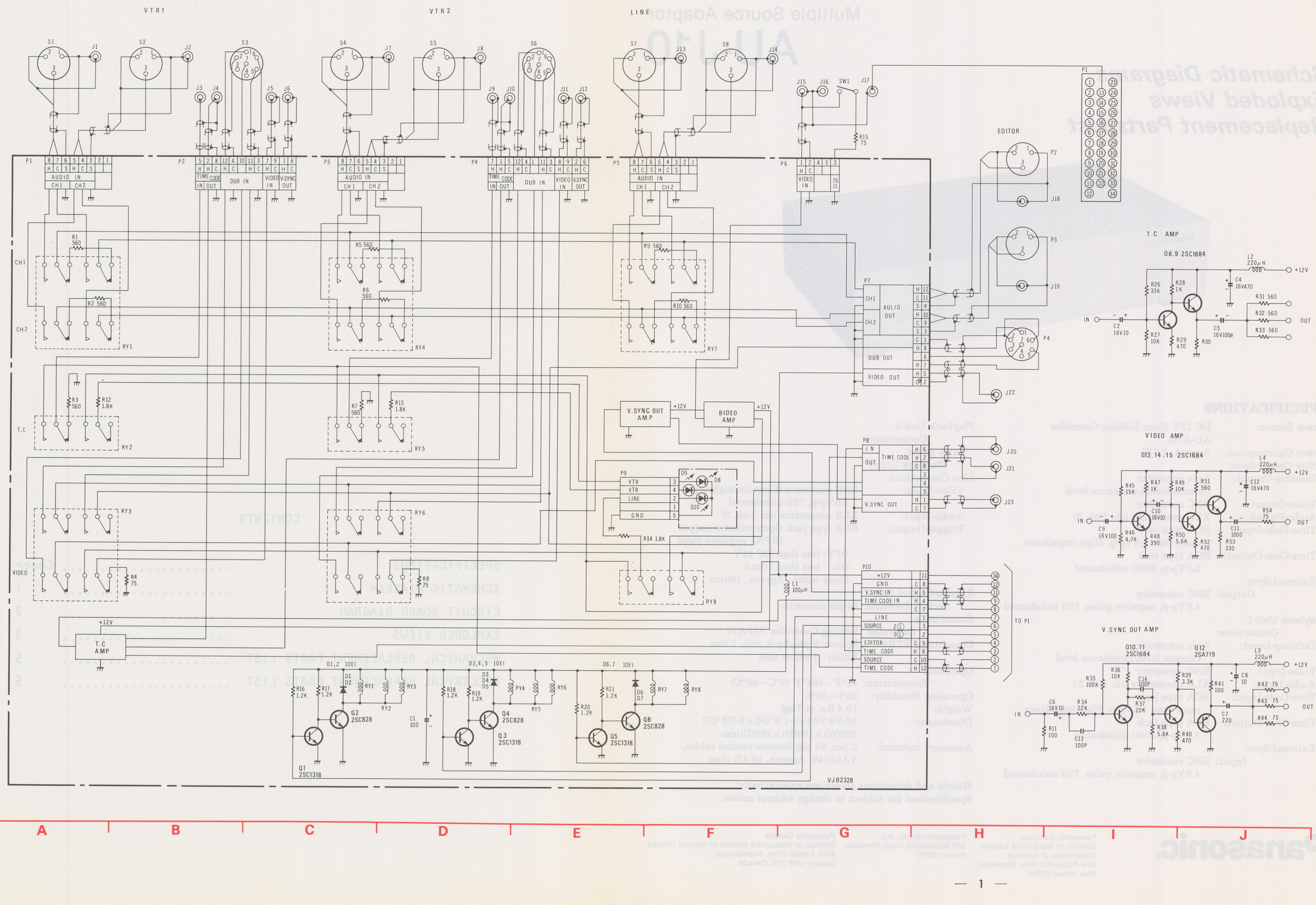
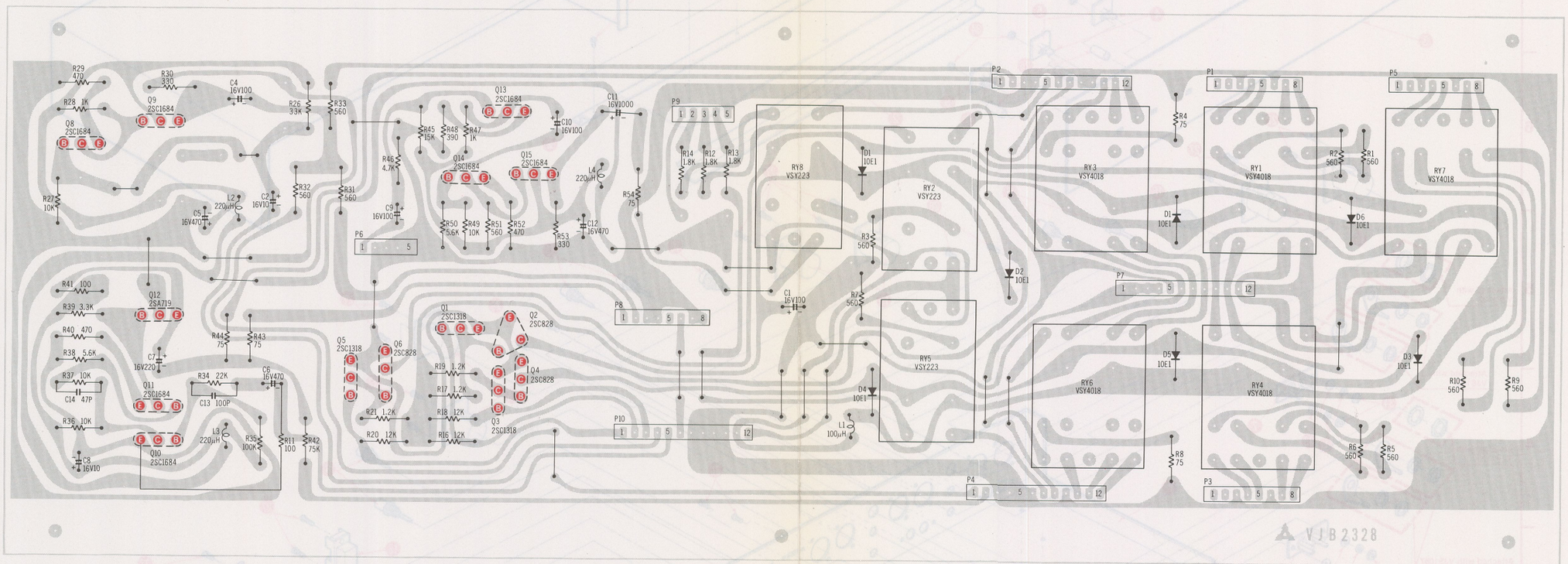
SCHEMATIC DIAGRAM



CIRCUIT BOARD (VEP2328A)



P9

1	—
2	LINE
3	VTR 1
4	VTR 2
5	GND

P6

1	VIDEO IN
2	GND
3	TERMINATE (75Ω)
4	—
5	—

P8

1	V.SYNC OUT
2	TIME CODE OUT
3	—
4	—
5	—
6	TIME CODE IN
7	GND
8	GND

P10

1	LINE
2	SOURCE 1 ①
3	SOURCE 2 ①
4	TIME CODE IN (+)
5	V.SYNC IN (+)
6	TIME CODE EDITOR
7	GND
8	GND
9	GND
10	GND
11	+12V
12	TIME CODE SOURCE

P2

1	U.SYNC OUT
2	TIME CODE OUT
3	GND
4	GND
5	TIME CODE IN
6	GND
7	VIDEO IN
8	GND
9	GND
10	—
11	DUB IN
12	DUB IN

P1

1	—
2	—
3	GND
4	AUDIO IN CH-2(−)
5	AUDIO IN CH-2(+)
6	GND
7	AUDIO IN CH-1(−)
8	AUDIO IN CH-1(+)

P5

1	—
2	—
3	GND
4	AUDIO IN CH-2(−)
5	AUDIO IN CH-2(+)
6	GND
7	AUDIO IN CH-1(−)
8	AUDIO IN CH-1(+)

P4

1	TIME CODE OUT
2	V.SYNC OUT
3	GND
4	GND
5	GND
6	GND
7	TIME CODE IN
8	VIDEO IN
9	GND
10	—
11	DUB IN
12	DUB IN

P3

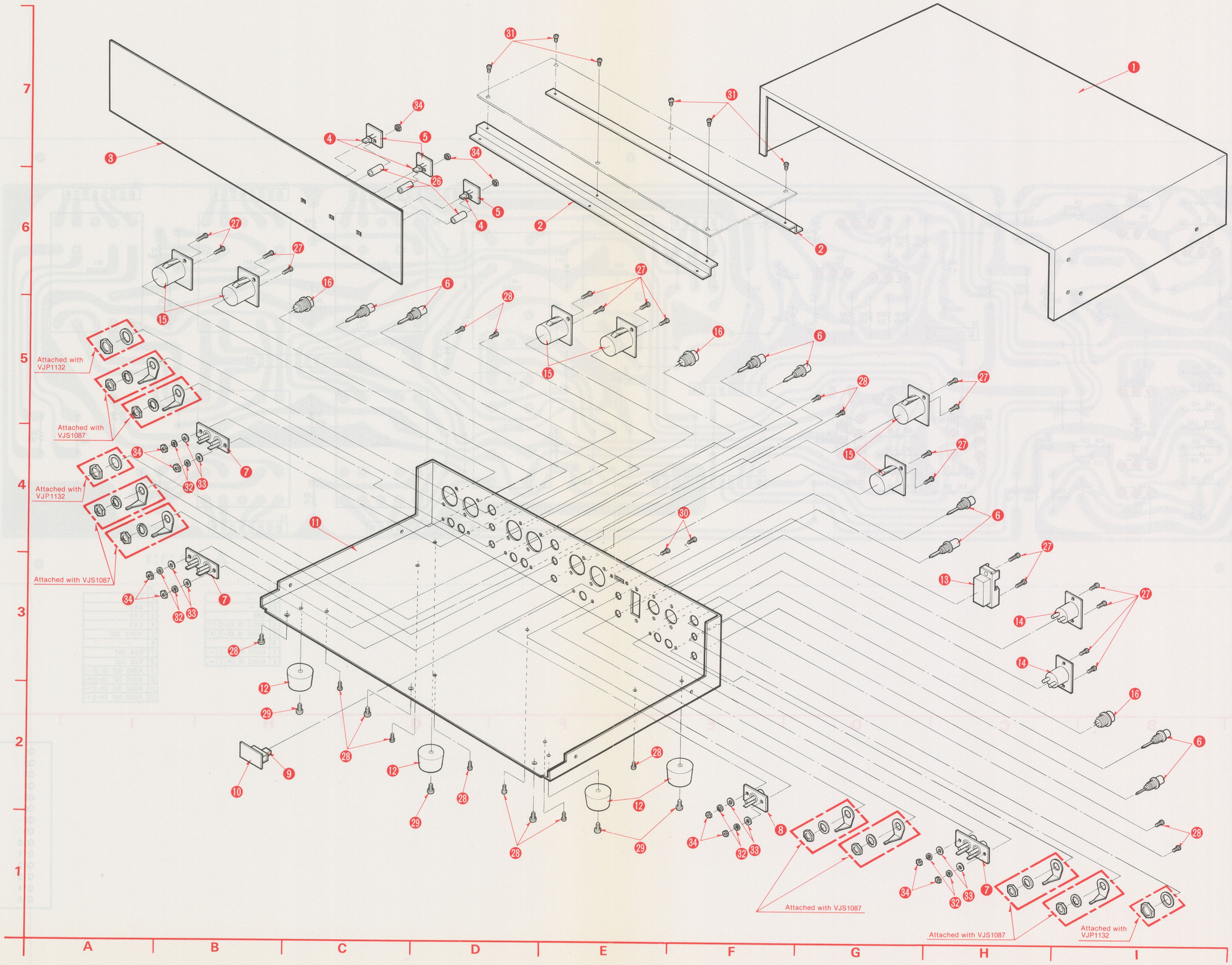
1	—
2	—
3	GND
4	AUDIO IN CH-2(−)
5	AUDIO IN CH-2(+)
6	GND
7	AUDIO IN CH-1(−)
8	AUDIO IN CH-1(+)

P7

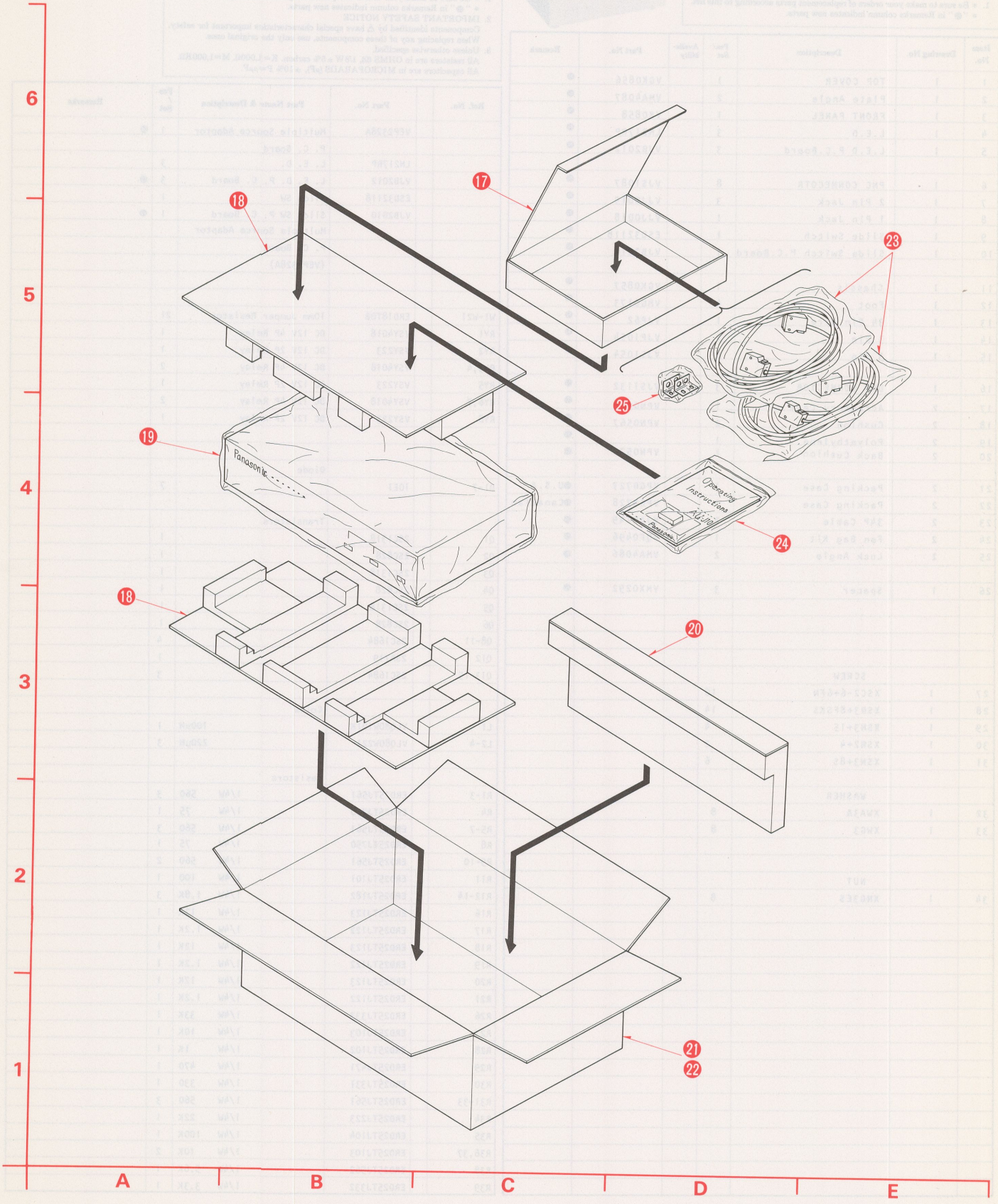
1	GND
2	GND
3	GND
4	GND
5	VIDEO OUT
6	—
7	DUB OUT
8	DUB OUT
9	AUDIO OUT CH-2(−)
10	AUDIO OUT CH-2(+)
11	AUDIO OUT CH-1(−)
12	AUDIO OUT CH-1(+)

Q1	D-3
Q2	D-3
Q3	D-2
Q4	D-2
Q5	C-2
Q6	C-2
Q8	B-4
Q9	B-4
Q10	B-2
Q11	B-2
Q12	B-3
Q13	D-4
Q14	D-3
Q15	D-3

EXPLODED VIEW *Chassis Parts*

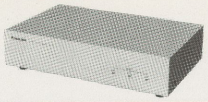


Packing Parts



MECHANICAL REPLACEMENT PARTS LIST

Model No. AU-J10



Notes:
1. * Be sure to make your orders of replacement parts according to this list.
   * "Ⓝ" in Remarks column indicates new parts.

Item No.	Drawing No.	Description	Pcs/ Set	Availability	Part No.	Remark
1	1	TOP COVER	1		VGK0856	Ⓝ
2	1	Plate Angle	2		VMA4087	Ⓝ
3	1	FRONT PANEL	1		VK0858	Ⓝ
4	1	L.E.D	3		LN217RP	Ⓝ
5	1	L.E.D P.C.Board	3		VJB2012	Ⓝ
6	1	PNC CONNECOTR	8		VJS1087	Ⓝ
7	1	2 Pin Jack	3		VJJ0019	Ⓝ
8	1	1 Pin Jack	1		VJJ0018	Ⓝ
9	1	Slide Switch	1		ESD32118	Ⓝ
10	1	Slide Switch P.C.Board	1		VJB2010	Ⓝ
11	1	Chassis	1		VGK0857	Ⓝ
12	1	Foot	4		VMG0173	Ⓝ
13	1	34 Pin Wire	1		VJP62	Ⓝ
14	1	3 Pin	2		VJP1054	Ⓝ
15	1	3 Pin	6		VJS1054	Ⓝ
16	1	DUB CONNECTOR	3		VJS1132	Ⓝ
17	2	Accessory Case	1		VPN0568	Ⓝ
18	2	Cushion	2		VPN0567	Ⓝ
19	2	Polyethylene	1			Ⓝ
20	2	Back Cushion	1		VPN0570	Ⓝ
21	2	Packing Case	1		VPG0727	ⓃU.S.A
22	2	Packing Case	1		VPG0728	ⓃCanadian
23	2	34P Cable	2		VJA0149	Ⓝ
24	2	Fan Bag Kit	1		VQF0496	Ⓝ
25	2	Luck Angle	2		VMA4086	Ⓝ
26	1	Spacer	3		VMX0292	Ⓝ
		SCREW				
27	1	XSC2-6+6FN	16			
28	1	XSB3+8FSKS	14			
29	1	XSN3+15	4			
30	1	XSN2+4	2			
31	1	XSN3+8S	6			
		WASHER				
32	1	XWA3A	8			
33	1	XWG3	8			
		NUT				
34	1	XNG3ES	8			

ELECTRICAL REPLACEMENT PARTS LIST

Model No. AU-J10

Notes:
1. * Be sure to make your orders of replacement parts according to this list.
   * "Ⓝ" in Remarks column indicates new parts.
2. IMPORTANT SAFETY NOTICE
   Components identified by ⚠ have special characteristics important for safety. When replacing any of these components, use only the original ones.
3. Unless otherwise specified,
   All resistors are in OHMS (Ω), 1/8W ± 5% carbon. K=1,000Ω, M=1,000KΩ.
   All capacitors are in MICROFARADS (μF), ± 10% P=μμF.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
		VEP2328A	Multiple Source Adaptor	1	Ⓝ
			P. C. Board		
		LN217RP	L. E. D.	3	
		VJB2012	L. E. D. P. C. Board	3	Ⓝ
		ESD32118	Slide SW	1	
		VJB2010	Slide SW P. C. Board	1	Ⓝ
			Multiple Source Adaptor		
			P. C. Board		
			(VEP2328A)		
W1-W21		ERD18T0B	10mm Jumper Resistor	21	
RY1		VSY4018	DC 12V 4P Relay	1	
RY2		VSY223	DC 12V 2P Relay	1	
RY3,4		VSY4018	DC 12V 4P Relay	2	
RY5		VSY223	DC 12V 2P Relay	1	
RY6,7		VSY4018	DC 12V 4P Relay	2	
RY8		VSY223	DC 12V 2P Relay	1	
			Diode		
D1-7		10E1		7	
			Transistors		
Q1		2SC1318		1	
Q2		2SC828		1	
Q3		2SC1318		1	
Q4		2SC828		1	
Q5		2SC1318		1	
Q6		2SC828		1	
Q8-11		2SC1684		4	
Q12		2SA719		1	
Q13-15		2SC1684		3	
			Coils		
L1		VLQ80W101K	100μH	1	
L2-4		VLQ80W221	220μH	3	
			Resistors		
R1-3		ERD25TJ561	1/4W 560	3	
R4		ERD25TJ750	1/4W 75	1	
R5-7		ERD25TJ561	1/4W 560	3	
R8		ERD25TJ750	1/4W 75	1	
R9-10		ERD25TJ561	1/4W 560	2	
R11		ERD25TJ101	1/4W 100	1	
R12-14		ERD25TJ182	1/4W 1.8K	3	
R16		ERD25TJ123	1/4W 12K	1	
R17		ERD25TJ122	1/4W 1.2K	1	
R18		ERD25TJ123	1/4W 12K	1	
R19		ERD25TJ122	1/4W 1.2K	1	
R20		ERD25TJ123	1/4W 12K	1	
R21		ERD25TJ122	1/4W 1.2K	1	
R26		ERD25TJ333	1/4W 33K	1	
R27		ERD25TJ103	1/4W 10K	1	
R28		ERD25TJ102	1/4W 1K	1	
R29		ERD25TJ471	1/4W 470	1	
R30		ERD25TJ331	1/4W 330	1	
R31-33		ERD25TJ561	1/4W 560	3	
R34		ERD25TJ223	1/4W 22K	1	
R35		ERD25TJ104	1/4W 100K	1	
R36,37		ERD25TJ103	1/4W 10K	2	
R38		ERD25TJ562	1/4W 5.6K	1	
R39		ERD25TJ332	1/4W 3.3K	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R40		ERD25TJ471	1/4W 470	1	
R41		ERD25TJ101	1/4W 100	1	
R42-44		ERD25TJ750	1/4W 75	3	
R45		ERD25TJ153	1/4W 15K	1	
R46		ERD25TJ472	1/4W 4.7K	1	
R47		ERD25TJ102	1/4W 1K	1	
R48		ERD25TJ391	1/4W 390	1	
R49		ERD25TJ103	1/4W 10K	1	
R50		ERD25TJ562	1/4W 5.6K	1	
R51		ERD25TJ561	1/4W 560	1	
R52		ERD25TJ471	1/4W 470	1	
R54		ERD25TJ750	1/4W 75	1	
			Capacitors		
C1		ECEA1CS101	Electrolytic 16V 100	1	
C2		ECEA1CS100	Electrolytic 16V 10	1	
C4		ECEA1CS101	Electrolytic 16V 100	1	
C5		ECEA1CS471	Electrolytic 16V 470	1	
C6		ECEA1CS100	Electrolytic 16V 10	1	
C7		ECEA1CS221	Electrolytic 16V 220	1	
C8		ECEA1CS471	Electrolytic 16V 470	1	
C9,10		ECEA1CS101	Electrolytic 16V 100	2	
C11		ECEA1CS102	Electrolytic 16V 1000	1	
C12		ECEA1CS471	Electrolytic 16V 470	1	
C13,14		ECKW1H101	Ceramic 50V 100P	2	
			Connectors		
P1		VJP0097	8P	1	
P2		VJP1069	12P	1	
P3		VJP0097	8P	1	
P4		VJP1069	12P	1	
P5		VJP0097	8P	1	
P6		VJP0090	5P	1	
P7		VJP1069	12P	1	
P8		VJP0097	8P	1	
P9		VJP0090	5P	1	
P10		VJP1069	12P	1	

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